

Amendments to the Abstract:

Please replace the Abstract with the following amended abstract.

ABSTRACT OF THE ~~INVENTION~~ DISCLOSURE

~~The invention relates to a~~ A system for measuring a thermal neutron emission from a neutron source is provided. The system employs a detector utilizing a plurality of doped pBN layers ~~neutron detector~~, wherein the doped pBN layers are ~~is~~ doped with at least one dopant across a c-plane of the layers for an electrical resistivity of 10^{14} ohm-cm or less.

ATTACHMENT: Enclosed clean copy of Abstract on separate sheet; 1 page

ABSTRACT OF THE DISCLOSURE

A system for measuring a thermal neutron emission from a neutron source is provided. The system employs a detector utilizing a plurality of doped pBN layers, wherein the doped pBN layers are doped with at least one dopant across an a-b plane of the layers for an electrical resistivity of 10^{14} ohm-cm or less.